

1 / 8

SEQUENCE LISTING

<110> The Kitasato Institute

<120> FELINE INFECTIOUS PERITONITIS VACCINE

<130> K4-A0201P

<140>

<141>

<150> JP 2002-196290

<151> 2002-07-04

<160> 8

<170> PatentIn Ver. 2.1

<210> 1

<211> 1134

<212> DNA

<213> Feline infectious peritonitis virus

<400> 1

atggccacac agggacaacg cgtcaactgg ggagatgaac cttccaaaag acgtgatcgt 60
tctaactctc gtggtcggaa gaataataat atacctcttt cattcttcaa ccccaccacc 120
ctcgaacaag gagctaaatt ttggtatgta tgtccgagag actttgttcc caagggaata 180

ggtaataagg atcaacaaat tggttattgg aacagacagg cgcgctttcg cattgtcaag 240
 ggtcagcgta aggaactccc tgagagatgg tttttctatt tcttaggtac aggacctcat 300
 gctgatgcta aatttaaaga taagattgat ggagtcttct gggttgcaaa ggatggtgcc 360
 atgaacaagc caacatcact tggcactcgt ggaaccaaca atgaatccga accattgaga 420
 tttgatggta agataccacc acaattccag cttgaagtaa accgttctag gaataattca 480
 aggtctgggt ctcagtctag atctggctca agaaacaggt ctcaatccag gggaagacaa 540
 caatccaata accagaatac taatgttgag gatacaattg tagctgtgct tcagaaatta 600
 ggtgttactg acaagcaaag gtcacgttct aaatctagag accgtagtga ctctaaatct 660
 agagacacaa cacctaaaaa cgccaacaaa cacacctgga agaaaactgc aggttaagggt 720
 gatgtgacaa atttctttgg tgctagaagt gcttcggcta actttgggtga tagtgatctc 780
 gttgccaatg gtaacgctgc caaatgctac cctcagatag ccgaatgcgt tccatcagta 840
 tctagcgtgc tcttcggtag tcaatgggtcc gctgaagaag ctggagatca agtgaaagtc 900
 acacttactc acacctacta cctgccaaaa ggtgatgcca aaaccagtca attcctagaa 960
 cagattgacg cttacaagcg cccttcacaa gtagctaagg aacagaggaa accaaagcct 1020
 cgctctaagt ctgctgataa gaagcctgag gaattgtctg taactcttgt agaggcatac 1080
 acagatgtgt ttgatgacac acaggttgag atgattgatg aggttacgaa ctaa 1134

<210> 2

<211> 377

<212> PRT

<213> Feline infectious peritonitis virus

<400> 2

Met Ala Thr Gln Gly Gln Arg Val Asn Trp Gly Asp Glu Pro Ser Lys

1

5

10

15

Arg Arg Asp Arg Ser Asn Ser Arg Gly Arg Lys Asn Asn Asn Ile Pro

20

25

30

Leu Ser Phe Phe Asn Pro Thr Thr Leu Glu Gln Gly Ala Lys Phe Trp

35

40

45

Tyr Val Cys Pro Arg Asp Phe Val Pro Lys Gly Ile Gly Asn Lys Asp

50

55

60

Gln Gln Ile Gly Tyr Trp Asn Arg Gln Ala Arg Phe Arg Ile Val Lys

65

70

75

80

Gly Gln Arg Lys Glu Leu Pro Glu Arg Trp Phe Phe Tyr Phe Leu Gly

85

90

95

Thr Gly Pro His Ala Asp Ala Lys Phe Lys Asp Lys Ile Asp Gly Val

100

105

110

Phe Trp Val Ala Lys Asp Gly Ala Met Asn Lys Pro Thr Ser Leu Gly

115

120

125

Thr Arg Gly Thr Asn Asn Glu Ser Glu Pro Leu Arg Phe Asp Gly Lys

130

135

140

Ile Pro Pro Gln Phe Gln Leu Glu Val Asn Arg Ser Arg Asn Asn Ser

145 150 155 160

Arg Ser Gly Ser Gln Ser Arg Ser Gly Ser Arg Asn Arg Ser Gln Ser

165 170 175

Arg Gly Arg Gln Gln Ser Asn Asn Gln Asn Thr Asn Val Glu Asp Thr

180 185 190

Ile Val Ala Val Leu Gln Lys Leu Gly Val Thr Asp Lys Gln Arg Ser

195 200 205

Arg Ser Lys Ser Arg Asp Arg Ser Asp Ser Lys Ser Arg Asp Thr Thr

210 215 220

Pro Lys Asn Ala Asn Lys His Thr Trp Lys Lys Thr Ala Gly Lys Gly

225 230 235 240

Asp Val Thr Asn Phe Phe Gly Ala Arg Ser Ala Ser Ala Asn Phe Gly

245 250 255

Asp Ser Asp Leu Val Ala Asn Gly Asn Ala Ala Lys Cys Tyr Pro Gln

260 265 270

Ile Ala Glu Cys Val Pro Ser Val Ser Ser Val Leu Phe Gly Ser Gln

275 280 285

Trp Ser Ala Glu Glu Ala Gly Asp Gln Val Lys Val Thr Leu Thr His

290

295

300

Thr Tyr Tyr Leu Pro Lys Gly Asp Ala Lys Thr Ser Gln Phe Leu Glu

305

310

315

320

Gln Ile Asp Ala Tyr Lys Arg Pro Ser Gln Val Ala Lys Glu Gln Arg

325

330

335

Lys Pro Lys Pro Arg Ser Lys Ser Ala Asp Lys Lys Pro Glu Glu Leu

340

345

350

Ser Val Thr Leu Val Glu Ala Tyr Thr Asp Val Phe Asp Asp Thr Gln

355

360

365

Val Glu Met Ile Asp Glu Val Thr Asn

370

375

<210> 3

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially

Synthesized Sequence

<400> 3

ggggaattca attaaaggca actactgccca

30

<210> 4

<211> 41

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
Synthesized Sequence

<400> 4

ctgtgaattc tgcaggatcc tttttttttt tttttttttt t

41

<210> 5

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
Synthesized Sequence

<400> 5

caactgggga gatgaacctt

20

<210> 6

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
Synthesized Sequence

<400> 6

ggtagcattt ggcagcgta

20

<210> 7

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
Synthesized Sequence

<400> 7

attgatggag tcttctgggt tg

22

<210> 8

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
Synthesized Sequence

<400> 8

ttggcattct taggtgttgt gtc

23